



Please type a plus sign (+) inside this box



Approved for use through 10/31/99. OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	09/916,064
				Filing Date	7/26/01
				First Named Inventor	Michael Allen Seigler
				Group Art Unit	2812 3729
				Examiner Name	Paul D. Kim
Sheet	1	of	1	Attorney Docket Number	SEAG 48089

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
PIC ↓ ✓		5,256,249		Hsie et al.	10-26-1993	TO 2800 MAIL ROOM MAY 18 2003
		5,283,942		Chen et al.	02-08-1994	
		5,363,265		Hsie et al.	11-08-1994	
		5,640,753		Schultz et al.	06-24-1997	
		5,646,051		Solin	07-08-1997	
		5,784,224		Rottmayer et al.	07-21-1998	
		5,818,684		Iwasaki et al.	10-06-1998	
		5,861,328		Tehrani et al.	01-19-1999	
		5,883,763		Yuan et al.	03-16-1999	
		6,134,089		Barr et al.	10-17-2000	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				

Examiner Signature		Date Considered	8-15-03
--------------------	--	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

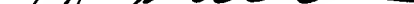

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

+ Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Substitute for form 1449B/PTO <div style="text-align: center;"> INFORMATION DISCLOSURE STATEMENT BY APPLICANT </div> <div style="text-align: center;"> (use as many sheets as necessary) </div>				Complete if Known	
				Application Number	09/916,064
				Filing Date	7/26/01
				First Named Inventor	Michael Allen Seigler
				Group Art Unit	2812
				Examiner Name	
Sheet	1	of	1	Attorney Docket Number	SEAG 48089

<div style="text-align: center;">Examiner Initials*</div>	<div style="text-align: center;">Cite No.[†]</div>	<div style="text-align: left; padding-left: 5px;">Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.</div>	T [‡]
PW		W. PRATT, JR. ET AL, "Perpendicular Giant Magnetoresistances of Ag/Co Multilayers," <i>Physical Review Letters</i> , Vol. 66, No. 23, June 10, 1991, pgs. 3060-3063.	
I ↓		M. GIJS ET AL, "Perpendicular Giant Magnetoresistance of Microstructured Fe/Cr Magnetic Multilayers from 4.2 to 300 K," <i>Physical Review Letters</i> , Vol. 70, No. 21, May 24, 1993, pgs. 3343-3346.	
		L. PIRAUX ET AL, "Giant Magnetoresistance in Magnetic Multilayered Nanowires," <i>Appl. Phys. Lett.</i> , Vol. 65, No. 19, November 7, 1994, pgs. 2484-2486.	
K ✓		K. BUSSMANN ET AL, "CPP Giant Magnetoresistance of NiFeCo/Cu/CoFe/Cu Multilayers," <i>IEEE Transactions on Magnetics</i> , Vol. 34, No. 4, July 1998, pgs. 924-926.	
R HSAO		R. HSIAO, "Fabrication of Magnetic Recording Heads and Dry Etching of Head Materials," <i>IBM Journal of Research & Development</i> , Vol. 43, No. 1/2, 1999, pgs. 1-14.	

RECEIVED JAN 18 2002 TC 2800 MAIL ROOM

Examiner Signature		Date Considered	
-----------------------	---	--------------------	---

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.

† Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.